INSTRUCTIONS

-J00876 REV. 2009-03-09

SECURITY SYSTEM SMART SIREN KIT

GENERAL

Kit Number

68328-02

Models

For model fitment information, see the P&A Retail Catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Kit Contents

See Figure 21 and Table 1.

Additional Parts Required

⚠WARNING

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333a)

NOTE

Some models reference service manual information. A service manual for your model motorcycle may be required for this installation and is available from a Harley-Davidson Dealer.

REMOVAL

1. Refer to the owner's manual and follow the instructions to disarm the security system.

⚠WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect negative (-) battery cable before proceeding. (00048a)

⚠WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, remove main fuse before proceeding. (00251b)

2. **For All Models except 2002-2003 Touring and 2003-Later Softail:** Refer to the owner's manual and follow the instructions to disconnect the battery, negative (-) cable first or remove the main fuse.

   For 2002-2003 Touring and 2003-Later Softail Models: Remove seat following the instructions in the service manual and disconnect the battery, negative (-) cable first. Save seat hardware for installation.

INSTALLATION

2002-2006 VRSCA, VRSCB, VRSCD Models

1. Open the seat.
2. See Figure 1. Remove the splash guard (mud flap) nuts.
3. See Figure 2. Lower the mud flap from the installed position and allow it to rest on the rear tire.

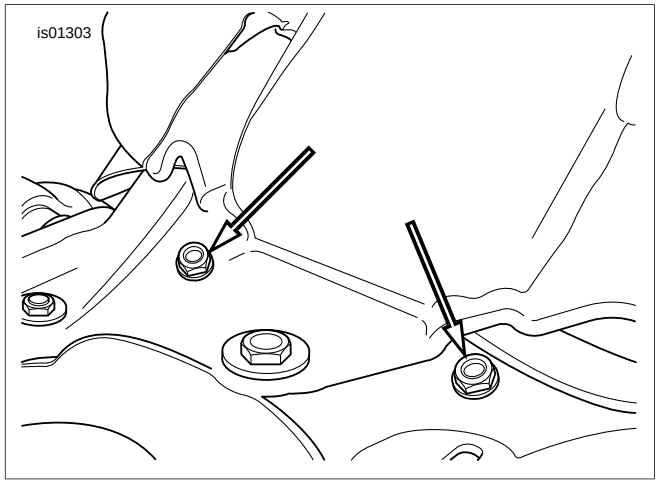


Figure 1. Remove Mud Flap Nuts (2002-2006 VRSCA/B/D Models)

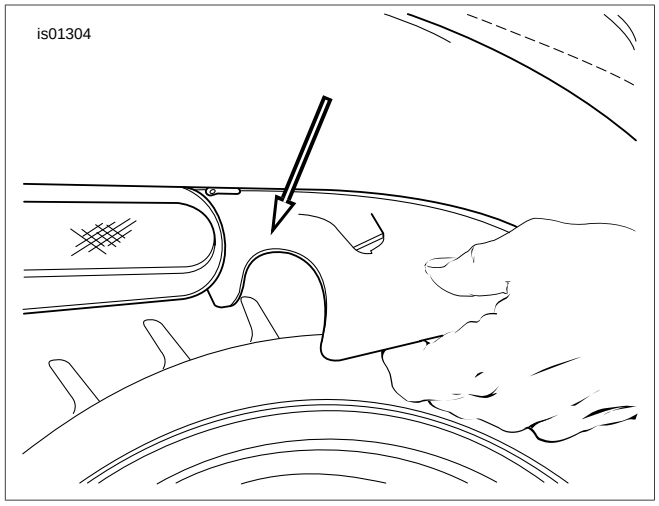
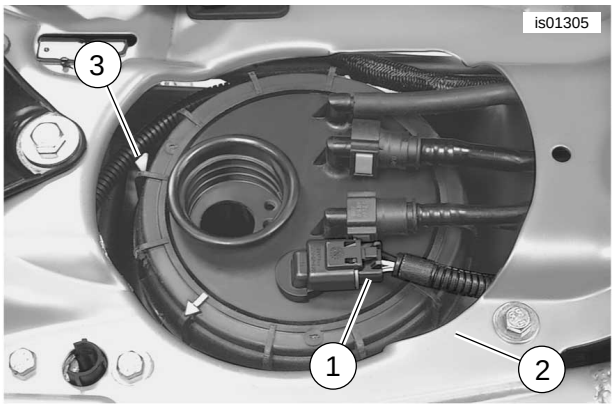


Figure 2. Lower the Mud Flap (2002-2006 VRSCA/B/D Models)

⚠WARNING

When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00330a)

4. Remove the fuel cap and the fuel filler boot. Save the boot for installation. Install the fuel cap.



1. **Fuel pump and sender connector**
2. **Security siren connector [142B] under here**
3. **Two-wire connector [95B]**

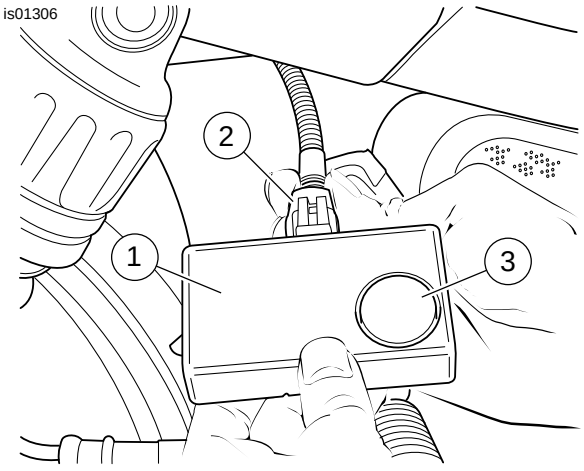
Figure 3. Locate Connector [142B] (All 2002-2006 VRSC Models) (Shown with Fuel Cap and Filler Boot Removed)

NOTE

See Figure 3. The security siren connector is a three-wire connector, not to be confused with the two-wire connector (3) tied to the harness (except on California models).

5. See Figure 3. Locate the security siren connector (2), at the end of the harness lead that wraps around the top of the fuel tank.

   Disconnect the fuel pump and sender connector (1) to free the security siren connector. The protective cap and wire tie on the security siren connector can be discarded.

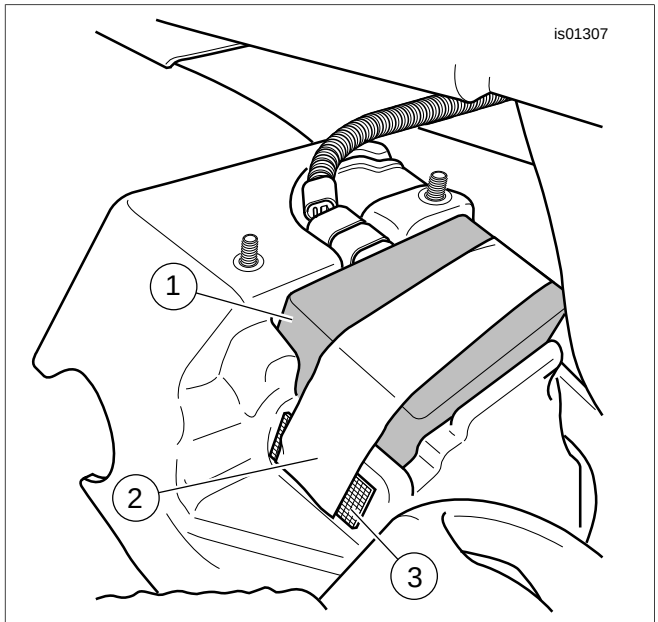


1. **Siren**
2. **Connector [142B]**
3. **Sounder disc**

Figure 4. Install Siren Connector (All 2002-2006 VRSC Models)

6. See Figure 4. Route the siren harness lead out from under the right side of the fender. Obtain the siren (1) from the kit and insert connector [142B] (2) into the siren receptacle until the connector latches securely.

7. See Figure 5. With the sounder disc facing the mud flap, position the siren on the mud flap. Secure the siren (1) to the existing hook fasteners (3) on the mud flap with the plain-backed loop fastener (2) from the kit.



1. **Siren**
2. **Plain-backed loop fastener (from kit)**
3. **Hook fastener (2, on vehicle)**

Figure 5. Secure Siren Box (2002-2006 VRSCA/B/D Models)

8. Install the mud flap to the underside of the fender. Install and tighten the mud flap nuts to 8-12 Nm (70.8-106.2 **in-lbs**). Remove the fuel cap. Install the fuel filler boot. Install the fuel cap.

CAUTION

When closing the seat, make sure the ignition switch is in the FUEL position. If the ignition switch is in any other position when the seat is closed, the seat latch mechanism could be damaged. (00196a)

9. Refer to the owner's manual and follow the instructions to close the seat.

10. Install the main fuse per the instructions in the owner's manual.

2006-2007 VRSCR Models

1. Open the seat.

⚠WARNING

When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00330a)

2. Remove the fuel cap and the fuel filler boot. Install the fuel cap.

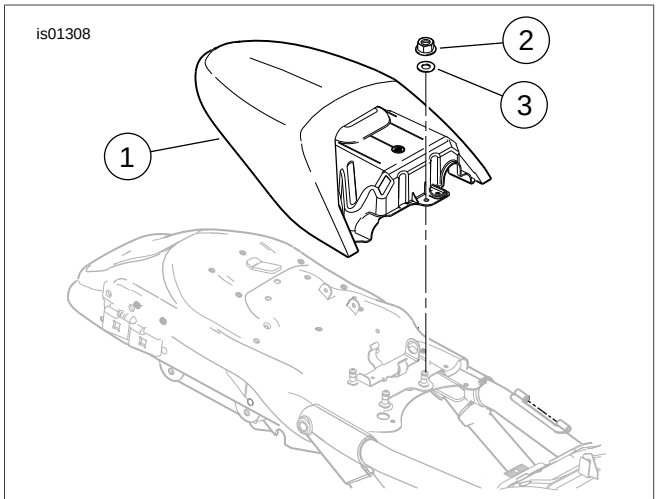
NOTE

The security siren connector is a three-wire connector, not to be confused with the two-wire connector (3) tied to the harness (except on California models).

3. See Figure 3. Locate the security siren connector (2), at the end of the harness lead that wraps around the top of the fuel tank.

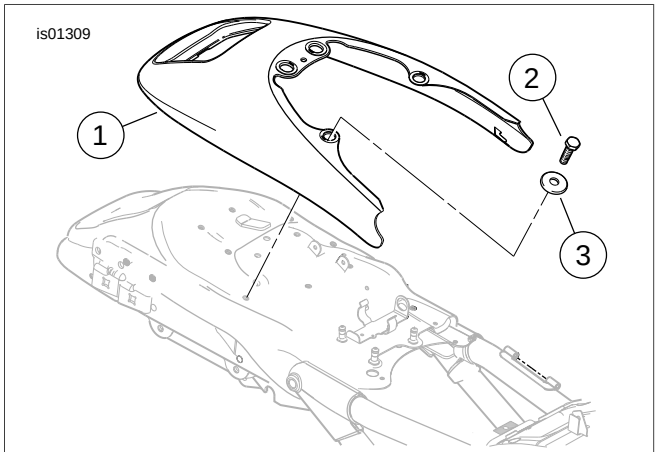
   Disconnect the fuel pump and sender connector (1) to free the security siren connector. The protective cap and cable strap on the security siren connector can be discarded.

4. See Figure 6. Remove the flanged hex nut (2) and flat washer (3) that retain the passenger seat (1) and remove the seat.



1. Passenger seat
2. Flanged hex nut
3. Flat washer

Figure 6. Remove Passenger Seat (2006-2007 VRSCR Models)



1. Rear outer fender
2. Hex head screw (4)
3. Spacer washer (4)

Figure 7. Fender Mounting Fasteners (2006-2007 VRSCR Models)

5. See Figure 7. Remove the four hex head screws (2) and spacer washers (3) that retain the rear outer fender (1). Remove the fender by sliding back and lifting up.

6. See Figure 4. Route the siren harness lead out from under the right side of the fender. Obtain the siren (1) from the kit and insert connector [142B] (2) into the siren receptacle until the connector latches securely.

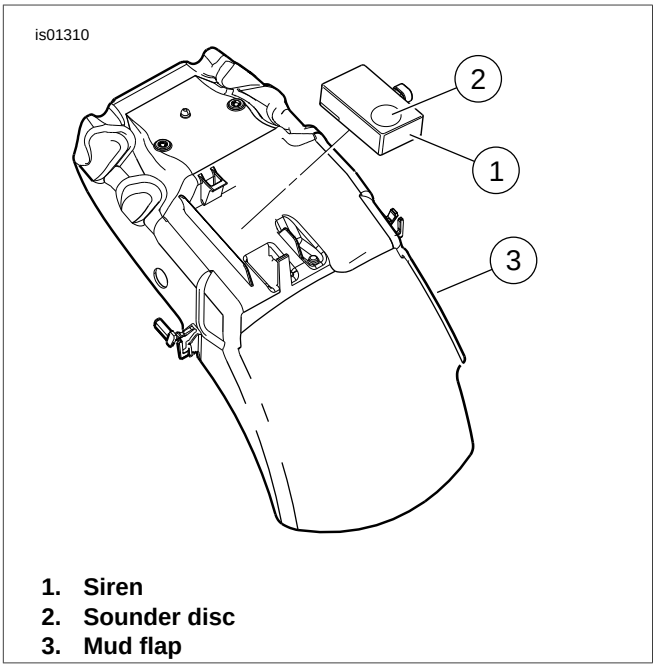
7. See Figure 8. With the sounder disc (2) facing out, clip the siren (1) onto the mud flap (3) as shown.

8. Install the rear outer fender by sliding the tabs on the front of the fender into the slots on the inner fender locking tabs.

NOTE

Verify that the outer fender tabs are latched with the inner fender locking tabs.

9. Press down gently on the outer fender to seat the fender against the frame.



1. Siren
2. Sounder disc
3. Mud flap

Figure 8. Secure Siren Box (2006-2007 VRSCR Models)

10. Install the four screws and flat washers that retain the rear outer fender and tighten to 4.5-7.5 Nm (40-66 **in-lbs**).

11. Install the passenger seat with the flanged hex nut and flat washer removed earlier. Tighten to 20-25 Nm (15-19 ft-lbs).

12. Install the mud flap to the underside of the fender. Install and tighten the mud flap nuts to 8-12 Nm (70.8-106.2 **in-lbs**). Remove the fuel cap. Install the fuel filler boot. Install the fuel cap.

CAUTION

When closing the seat, make sure the ignition switch is in the FUEL position. If the ignition switch is in any other position when the seat is closed, the seat latch mechanism could be damaged. (00196a)

⚠WARNING

After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

13. Refer to the owner's manual and follow the instructions given to close the seat.

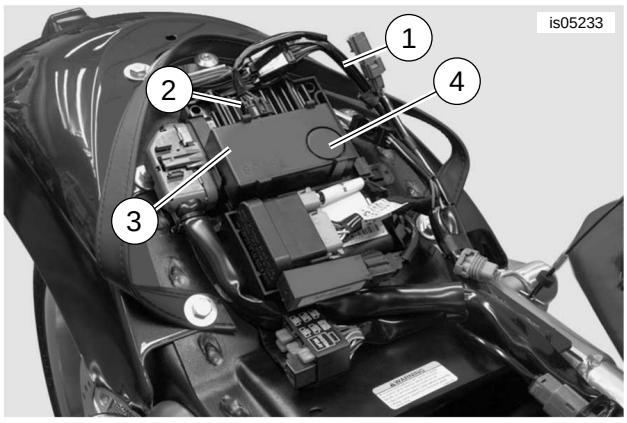
14. Install the main fuse per the instructions in the owner's manual.

2007 and Later VRSCA, VRSCD, VRSCF Models

1. Open the seat.

2. Remove the passenger seat (pillion) mounting nut and washer at the left front of the seat. Remove the rider seat retaining post at the right front.

3. Slide the passenger seat forward slightly to detach it from the mounting tab on the fender then slide it back and out from under the grab strap. Lift the seat away from the motorcycle.



1. **Main harness lead**
2. **Security siren connector [142B]**
3. **Siren**
4. **Sounder disc**

Figure 9. Secure Siren Box (2007 and Later VRSCA, VRSCD, VRSCF Models)

4. See Figure 9. Locate the three-wire security siren connector [142B] (2), tied back to the harness lead (1) that travels alongside the TSSM mounting caddy. Cut the tape to free the connector and wires.

5. Insert the siren (3) connector [142B] into the siren receptacle until the connector latches securely.

6. With the sounder disc (4) facing out, clip the siren onto the TSSM mounting caddy as shown.

7. Slide the passenger seat under the grab strap, and engage the mounting tab on the fender into the slot in the underside of the seat. Make sure harnesses are not pinched under the passenger seat frame.

⚠WARNING

After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

8. Install the passenger seat with the rider seat retaining post at the right front, and the seat mounting nut and washer at the left front.

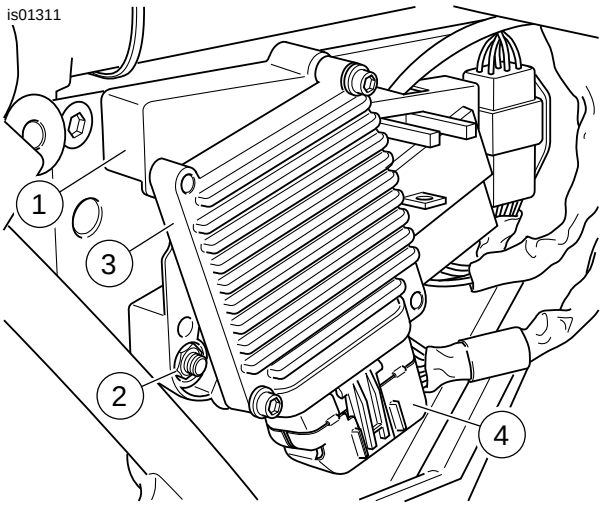
   Tighten the nuts to 11-17 Nm (97-150 **in-lbs**).

9. Install the main fuse per the instructions in the owner's manual.

2002-2007 FL Touring Models

1. Remove the right side saddlebag per the instructions in the owner's manual. Gently pull the side cover from the frame downtubes.

2. See Figure 10. Remove the two flange nuts (2) from the electrical bracket (1). Pull the bracket assembly, with the electronic control module (ECM) and connector attached, away from the side of the battery box.



1. **Electrical bracket**
2. **Flange nuts (2)**
3. **Electronic control module (ECM)**
4. **ECM connector**

Figure 10. Electrical Bracket (2002-2007 FL Touring Models)

3. Refer to Figure 11. Remove the siren harness lead (1) from the back of the electrical bracket and take the protective cap (2) off of the security siren connector [142B].

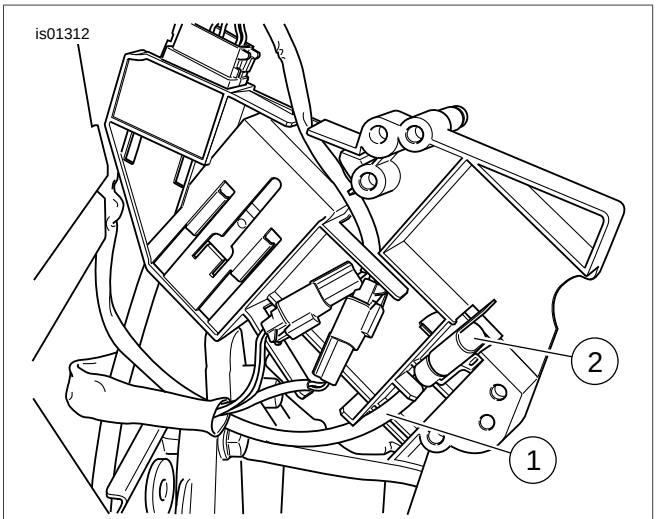
4. See Figure 12. Insert the security siren (1) connector [142B] into the siren box receptacle until the connector latches securely.

5. Refer to Figure 13. Slide the siren (2) into place on the back of the electrical bracket (1) so the sounder disc faces out.

NOTE

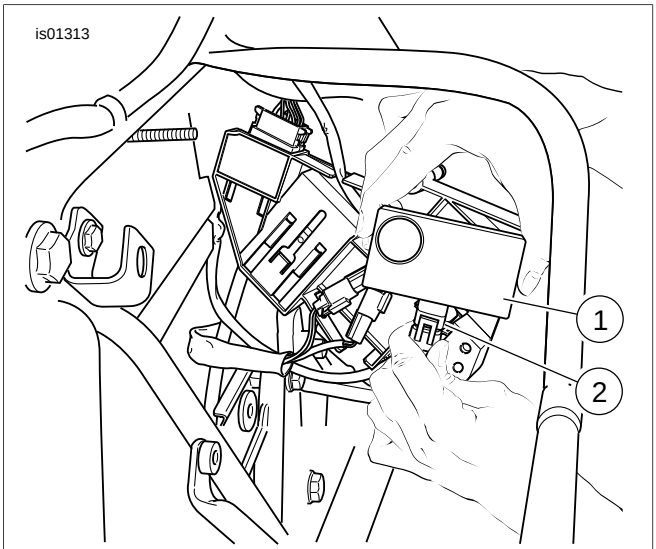
Be sure that the cables and conduit are properly routed so they are not pinched during assembly.

6. See Figure 14. Install the electrical bracket assembly with the siren back onto the studs on the side of the battery box. Install the two flange nuts onto the studs, and tighten to 4.1-5.4 Nm (36-48 **in-lbs**).



1. **Siren harness lead**
2. **Protective cap**

Figure 11. Siren Wire Harness (2002-2007 FL Touring)



1. **Security siren**
2. **Siren connector [142B]**

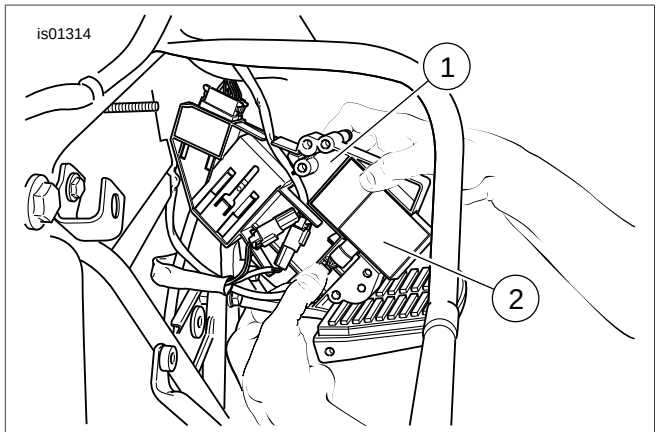
Figure 12. Insert Siren Connector (2002-2007 FL Touring)

7. Align the barbed studs on the side cover with the grommets in the frame, and push side cover firmly into place.
8. Install the right side saddlebag per the instructions in the owner's manual.

⚠WARNING

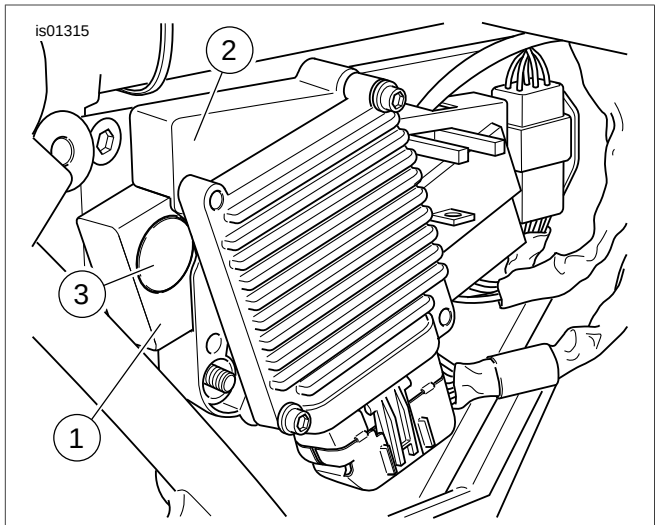
After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

9. **For 2002-2003 Models:** Refer to the owner's manual and follow the instructions given to connect the battery cables. Install the seat.
10. **For 2004-2007 Models:** Refer to the owner's manual and follow the instructions given to install the main fuse or connect the battery cables.



1. **Electrical bracket**
2. **Siren**

Figure 13. Slide Siren into Place (2002-2007 FL Touring)



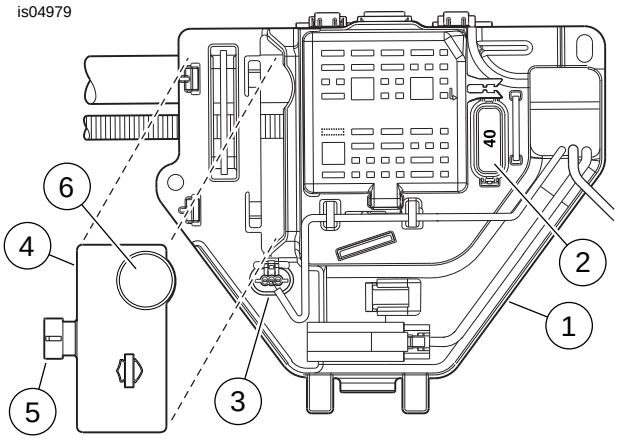
1. **Siren**
2. **Electrical bracket**
3. **Sounder disc**

Figure 14. Siren and Electrical Bracket Installed (2002-2007 FL Touring Models)

2008 and later FL Touring Models

1. Follow the instructions in the owner's manual to remove the left side saddlebag, gently pull the side cover from the frame downtubes.
2. See Figure 15. Remove the security siren connector [142B] (3) from the retainer on the electrical caddy.

   Insert security siren (4) connector [142B] into the security siren receptacle (5) until the connector latches securely.



1. **Left-side electrical caddy**
2. **Main fuse**
3. **Security siren connector [142B]**
4. **Security siren**
5. **Security siren receptacle**
6. **Sounder disc**

Figure 15. Siren Installation (2008 and Later FL Touring Models)

3. Slide the siren into place on the left side of the electrical caddy so the sounder disc (6) faces out.
4. Refer to the owner's manual and follow the instructions to install the main fuse.
5. Align the barbed studs on the side cover with the grommets in the frame and push side cover firmly into place.
6. Install the left side saddlebag per the instructions in the owner's manual.

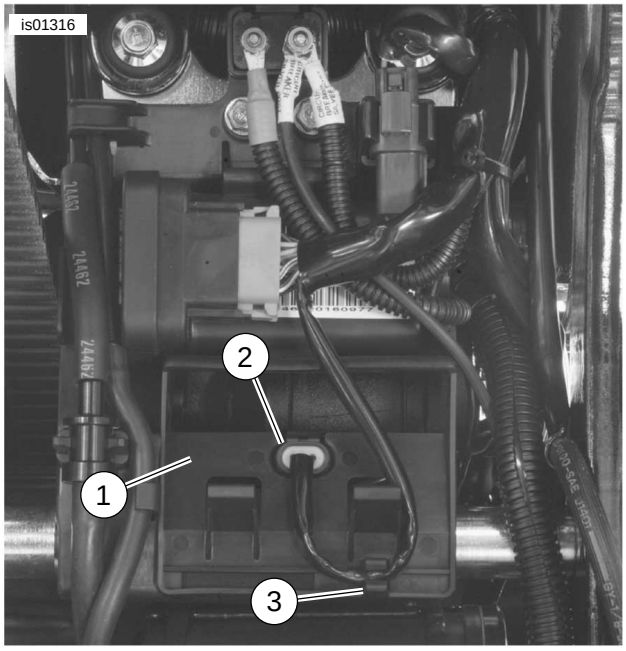
2003 and later Softail Models EXCEPT FXCW/C

1. Remove the right side saddlebag (if equipped) per the instructions in the owner's manual.

NOTE

The siren connector is installed on an electrical panel under the rear fender on all Softail models. The rear of the motorcycle may have to be raised slightly to allow removal of the splash guard.

2. Remove the two bolts at the bottom of the splash guard. Bend the upper right corner of the splash guard toward the rear tire and lift upward to unhook the splash guard from the tab on the rear fork. Remove the guard from beneath the fender.



1. **Siren mounting area**
2. **Siren connector [142B]**
3. **Harness clip**

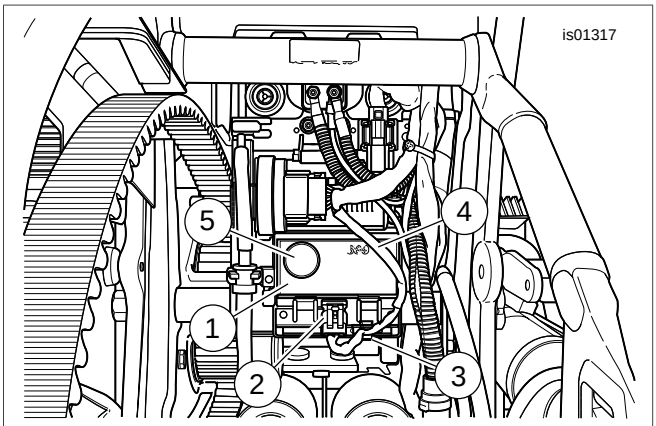
Figure 16. Siren Connector (Softail Models EXCEPT FXCW/C) (Rear Fender View with Rear Wheel Removed)

3. See Figure 16. Remove the siren connector [142B] (2) from the receptacle in the siren mounting area (1) of the electrical panel.
4. See Figure 17. Insert security siren (1) connector [142B] into the siren box receptacle until the connector latches securely.
5. Orient the siren (1) as shown, with the harness connector (2) toward the bottom and the sounder disc (5) facing out. Carefully snap the siren into the electrical panel.
6. Insert the siren harness lead (4) into the harness clip (3) to keep the harness clear of other components.
7. If necessary, secure the connector wiring to the electrical panel wiring with a cable strap (not provided).
8. Hook the slot at the top of the splash guard over the tab on the rear fork and install the guard with the two screws removed earlier. Tighten securely.
9. Install the right side saddlebag (if equipped) per the instructions in the owner's manual.
10. Refer to the owner's manual and follow the instructions given to connect the battery cables or install the main fuse.

⚠WARNING

After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

11. Install the seat.



1. **Security siren**
2. **Siren connector [142B]**
3. **Siren harness clip**
4. **Siren harness lead**
5. **Sounder disc**

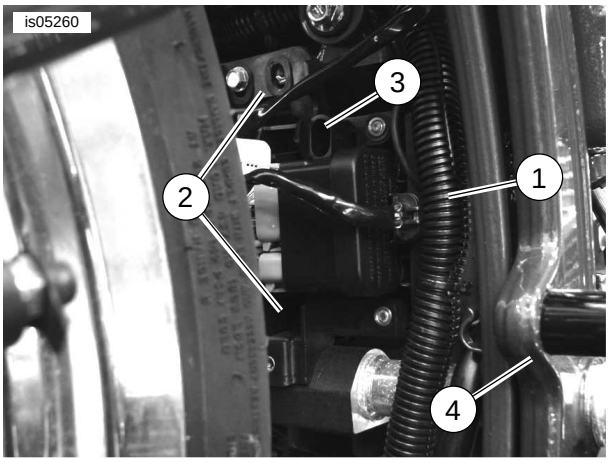
Figure 17. Siren Mounting (Softail Models EXCEPT FXCW/C)

2008 and later FXCW/C (Rocker) Models

NOTE

Note the fender wire routing and hardware locations before removal.

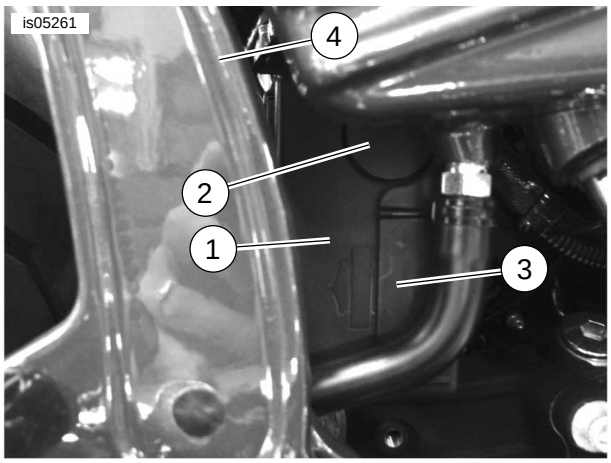
1. Remove the rear fender from the vehicle. Refer the service manual and follow the instructions to:
   a. Disconnect the rear wiring harness connector [7] halves.
   b. Remove the lower fender mounting bolts and washers.
   c. Remove the upper fender mounting screws and washers.
   d. Remove the fender.
2. See Figure 18. Remove the harness (1) clipped to the right side of the electrical compartment cover (splash guard, already removed in photo) just forward of the rear wheel. Remove the two hex socket head screws and washers fastening the cover and remove the cover from the vehicle.



1. **Harness clipped to cover**
2. **Electrical panel**
3. **Siren connector [142B] receptacle**
4. **Rear fork (swing arm)**

Figure 18. Electrical Panel (FXCW/C Models)

3. Remove the siren connector [142B] from the receptacle (3) near the top of the electrical panel (2).
4. Insert siren box connector [142B] into the siren box receptacle until the connector latches securely.
5. See Figure 19. Position the siren box (1) with the harness connector toward the rear and the sounder disc (2) facing out. Carefully snap the siren box into the pocket (3) on the right side of the electrical panel.
6. Install the electrical compartment cover. Tighten the screws with washers to 4.1-6.8 Nm (36-60 **in-lbs**).



1. **Siren box**
2. **Sounder disc**
3. **Pocket on right side of electrical panel**
4. **Rear fork (swing arm)**

Figure 19. Siren Mounting (FXCW/C Models)

7. Install the rear fender to the vehicle. Refer to the service manual and follow the instructions to:
   a. Place the fender into position.
   b. Loosely install the fender mounting hardware.
   c. Tighten the fender mounting hardware, in the indicated sequence, to the specified torque.
   d. Connect the rear wiring harness connector [7] halves.
8. Refer to the owner's manual or service manual, and follow the instructions given to connect the battery cables or install the main fuse.

⚠WARNING

After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

9. Install the seat.

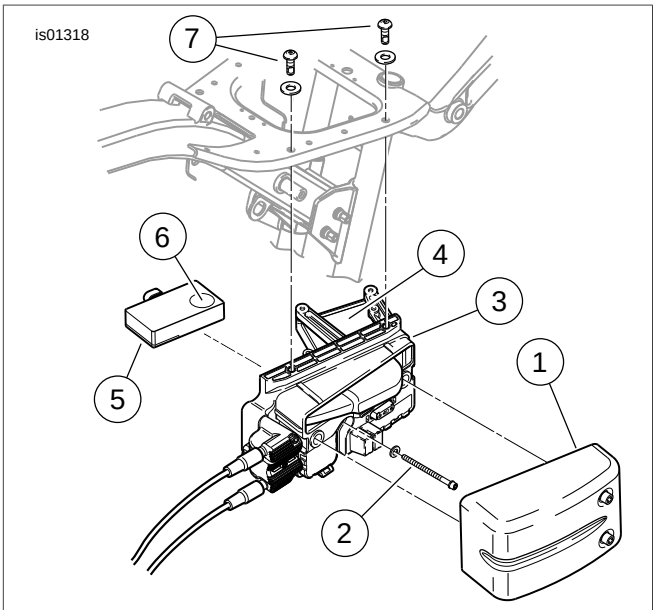
2004 and later Dyna Models

1. See Figure 20. Firmly grasp both sides of the electrical caddy cover (1) and pull to remove.

NOTE

When pulling the electrical caddy away from the motorcycle, make sure that the wiring connections are not disturbed. Pull the caddy away just far enough to allow installing the siren.

2. Remove the front electrical caddy screw and washer (2). Remove the two top electrical caddy screws and washers (7).
3. Tip the top of the electrical caddy (3) away from the vehicle slightly. Turn the siren (5) so the sounder disc (6) faces upward and the wire receptacle is facing the motorcycle as shown.
4. Remove the siren harness lead from behind the electrical caddy, and take the black dust cap off of the security siren connector [142B].
5. Insert connector [142B] into the siren receptacle until the connector latches securely. Insert the siren into the back of the caddy, beneath the ignition control module (4).
6. Install but do not tighten the front electrical caddy screw and washer (2). Install the top electrical caddy screws and washers (7). Tighten the top screws to 11.3 Nm (100 **in-lbs**). Tighten the front screw to 5.6 Nm (50 **in-lbs**).
7. Refer to the owner's manual and follow the instructions given to install the main fuse.
8. Install the electrical caddy cover.



1. Cover
2. Front fastener
3. Electrical caddy
4. Ignition module
5. Siren
6. Sounder disc
7. Top fasteners (2)

Figure 20. Install Siren in Electrical Caddy (Dyna Models)

ALL Models

NOTE

The siren may not function properly when first installed. NiMH (Nickel Metal Hydride) rechargeable batteries discharge fairly rapidly when stored. They will lose as much as 1% - 2% of their charge per day, and after a few months of storage at room temperature will be mostly discharged. If stored for a very long period without charging, they may need a few charging cycles to regain their full capacity.

To charge the NiMH battery, operate your motorcycle for a minimum of 4 hours.

SIREN DIAGNOSTICS

- If the siren is armed and the internal siren battery is discharged, shorted, disconnected or has been charging for a period longer than 24 hours, the siren will respond with three chirps on arming instead of two.
- The internal siren battery may not charge if the vehicle's charging system is producing less than 12.5 volts.
- If the siren does not chirp two or three times on a valid arming command from the security system, the siren is either not connected, not working or the siren wiring was opened or shorted while the siren was disarmed.
- If the siren enters the self-driven mode where it is powered from the siren's internal 9-volt battery, the turn signal lamps may or may not alternately flash. If the security system activates the siren, the turn signal lamps will alternately flash. If the siren has been armed and a security event occurs, and the siren is in self-driven mode, the siren will alarm for 20 to 30 seconds and then turn off for 5 to 10

seconds. This alarm cycle will be repeated ten times if the siren is in the self-driven mode.

SMART SIREN BATTERY REPLACEMENT

The siren's internal 9-volt battery is rechargeable and does not need to be replaced on a regular basis. Battery life under normal conditions is approximately three to six years.

NOTES

When battery replacement is needed, only a nickel metal hydride (NiMH) 9-volt battery should be used in the siren.

Use Security System Siren Battery Replacement Kit (69018-00). In addition to the 9-volt NiMH battery, this kit contains a replacement battery cover, cover gasket and instructions needed to provide continued proper operation of the siren.

To Replace the Smart Siren Battery:

1. Refer to the owner's manual and follow the instructions given to disarm the security system.
2. Remove the siren box from the vehicle. Reference the siren installation procedures for your model in this Instruction Sheet.
3. Follow the instructions included with the Battery Replacement Kit to remove the battery cover and remove and replace the battery. Replace the old seal and battery cover with the **new** items from the kit.
4. Install the siren box into the vehicle.
5. Dispose of the old NiMH battery in accordance with local regulations.

SERVICE PARTS

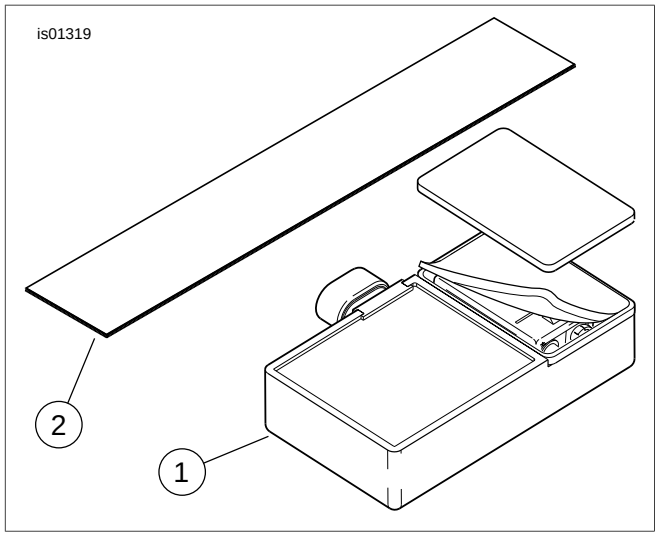


Figure 21. Service Parts: Smart Siren

Table 1. Service Parts

Item	Description (Quantity)	Part Number
1	Smart Siren, security system	68958-07B
2	Loop fastener, plain-backed, 210 mm x 38 mm (8-1/4 in x 1-1/2 in) - Used for 2002-2006 VRSCA/B/D Models Only	59274-01